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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/854,622	05/15/2001 Makoto Fujieda		1095.1186	8012	
21171 STAAS & HAL	7590 01/24/200 SEY LLP	EXAMINER			
SUITE 700		PITARO, RYAN F			
WASHINGTON	RK AVENUE, N.W. N, DC 20005		ART UNIT	PAPER NUMBER	
			2174		
		MAIL DATE	DELIVERY MODE		
			01/24/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Ap	plication No.	App	Applicant(s)				
		09	9/854,622	FUJ	FUJIEDA, MAKOTO				
		Ex	aminer	Art	Unit				
		RY	'AN F. PITARO	217	4				
Period fo	The MAILING DATE of this commun r Reply	ication appears	on the cover sheet	with the corres	pondence ad	idress			
WHIC - Exten after 9 - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comperiod for reply is specified above, the maximum st e to reply within the set or extended period for reply sply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE of 37 CFR 1.136(a). nunication. atutory period will ap will, by statute, caus	OF THIS COMMUN In no event, however, may ply and will expire SIX (6) Me e the application to become	NICATION. a reply be timely file ONTHS from the ma ABANDONED (35)	ed uiling date of this c U.S.C. § 133).				
Status									
1) 又	Responsive to communication(s) file	ed on <i>31 Octob</i>	er 2007						
•			on is non-final.						
—		<i>,</i> —		atters prosecu	ition as to the	e merits is			
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
	ologica in accordance with the practi	loo dildoi Ex pe	1110 Quayio, 1000 O	. . . 11, 100 0.	0.210.				
Dispositi	on of Claims								
4)🛛	Claim(s) <u>1,4-7 and 9-13</u> is/are pend	ing in the appli	cation.						
4	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
·	6)⊠ Claim(s) <u>1,4-7 and 9-13</u> is/are rejected.								
·	Claim(s) is/are objected to.								
•	Claim(s) are subject to restric	ction and/or ele	ction requirement.						
			7						
Application—	on Papers								
	Γhe specification is objected to by th								
10) 🔲 -	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including	g the correction is	s required if the drawir	ng(s) is objected	to. See 37 Cl	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice (3) Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Foration Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	Paper N	v Summary (PTO o(s)/Mail Date f Informal Patent 	·				

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DETAILED ACTION

Response to Amendment

1. This communication is responsive to the Amendment filed 10/31/2007.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 3-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kellstrom ("Kellstrom", US 6,088,625) in view of Harrison et al ("Harrison", US 6,611,725) in further view of Yotsukura ("Yorsukura" US 6,647,380) in view of Foster et al ("Foster", US 5,278,979).

As per independent claim 1, Kellstrom teaches a computer readable recording medium storing a program for causing a computer to perform operations, comprising: displaying a unit based on assembly data and parts data in response to a display

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request, the parts data including data about shapes of parts and version information about versions of the parts, the assembly data defining a structure of the unit formed by one or more parts (Kellstrom, col. 6, lines 34-38; col. 10, lines 47-54). Kellstrom fails to particularly point out information about individual parts. However, Harrison teaches information about individual parts which create an assembly, such as the one taught in Kellstrom, (Column 5 lines 58-66). Therefore it would have been obvious to an artisan at the time of the invention to combine the individual part information of Harrison with the system of Kellstrom. Motivation to do so would have been to provide an interrelated data structure to keep detailed features of each of the components. The modified Kellstrom fails to distinctly point out version information for each individual part. However, Yotsukura teaches storing the assembly data of the unit together with the version information about all parts that form the unit displayed, while assigning version information of the unit to the assembly data to be stored; and storing current and past versions of the parts data of each individual part (Column 2 lines 10-40). Therefore it would have been obvious to an artisan at the time of the invention to combine the modified Kellstrom with the version information of Yotsukura. Motivation to do so would have been to provide a design system and method, which enable new parts of a design to be designed or constructed in a timesaving and cost-effective manner. The modified Kellstrom fails to teach copying the assembly data as a new object and assigning thereto the oldest version information of the assembly data. However, Foster teaches copying the assembly data as a new object and assigning thereto the oldest version information of the assembly data (Column 1 lines 34-57, forward deltas). Therefore it

would have been obvious to an artisan at the time of the invention to combine the teaching of Foster with the modified method of Kellstrom. Motivation to do so would have been to enable multiple changes to be made to a common base and enable more efficient utilization of storage media.

Independent claims 10-13 are similar in scope to claim 1, and are therefore rejected under similar rationale.

As per claim 5, which is dependent on claim 1, Kellstrom-Harrison-Yotsukura-Foster teaches the computer readable recording medium as claimed in claim 1, wherein part of the parts data is sub-assembly data that defines a sub-unit formed by one or more of the other individual parts (Kellstrom, col.9, lines 29-32).

As per claim 6, which is dependent on claim 5, Kellstrom-Harrison-Yotsukura-Foster teaches the computer readable recording medium as claimed in claim 5, further comprising: causing the sub-unit defined in the sub-assembly data specified in the display request to be displayed (Kellstrom, col. 9, lines 41-59); and assigning version information about the individual parts that form the sub-unit displayed to the sub-assembly data specified in the display request (Kellstrom, col. 9, lines 41-59, Yotsukura Column 2 lines 10-40). In Kellstrom, the ability to update a specific part within a subassembly allows for the sub-unit to be assigned version information.

As per claim 7, which is dependent on claim 5, Kellstrom-Harrison-Yotsukura-Foster teaches the computer readable recording medium as claimed in claim 5, further comprising updating, in response to an at-registration information updating request, the version information about the assembly data and the sub-assembly data having a lower structure with respect to the assembly data to latest versions thereof (Yotsukura, Figure 3).

As per claim 8, which is dependent on claim 1, Kellstrom-Harrison-Yotsukura-Foster teaches a medium further comprising assigning initialized version information to a copy of the assembly data when the copy of the assembly data is made (Harrison, Column 6 lines 6-46).

As per claim 9, which is dependent on claim 1, Kellstrom-Harrison-Yotsukura-Foster teaches a medium further comprising diverting, when the assembly data used to form a first product is diverted to a second product, the version information about the assembly data of the first product to diverted assembly data of the second product (Harrison, Column 6 lines 6-46).

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kellstrom ("Kellstrom", US 6,088,625) and Harrison et al ("Harrison", US 6,611,725) in view of Yotsukura ("Yorsukura" US 6,647,380) and in view of Foster et al ("Foster", US 5,278,979) in view of Beppu et al. ("Beppu", US 5,777,877).

As per claim 4, which is dependent on claim 3, Kellstrom-Harrison-Yotsukura-Foster fails to distinctly point out the computer readable recording medium as claimed in claim 3, further comprising causing the parts of the unit to be emphatically displayed on the basis of parts data of a version different from a latest version when the display request is directed to states of parts at registration of the parts data. Beppu, however, teaches showing the correspondence between parts before and after a user recomposition of assemblies. This correspondence includes listing a part as "NEW" or "OLD" based on the parts version number (Beppu, col. 7, lines 59-67 and col. 8, lines 1-5). It would have been obvious to one skilled in the art at the time of invention to include the latest version identification of Beppu in the CAD system of Kellstrom-Harrison-Yotsukura-Foster because it would increase productivity by ensuring the user knows the version of each part in a given assembly.

Response to Arguments

Applicant's arguments with respect to claims 1,4-7,9-13 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN F. PITARO whose telephone number is

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(571)272-4071. The examiner can normally be reached on 7:00am - 4:30pm Mondays through Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. F. P./ Examiner, Art Unit 2174

/David A Wiley/

Supervisory Patent Examiner, Art Unit 2174